# BRUHATH BENGALURU MAHANAGARA PALIKE

**Yelahanka Division, Yelahanka Zone**

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/14/2021-22 Dated: 15-12-2021

## APPROVED TENDER SCHEDULE –'B'

Item 07

Name of Work :Additional works to Public Toilet at NES Circle in Yelahanka upanagara ward No 04

| Sl | Description | Unit | Approved Qty | Rate quoted by the contractor approved rates Sri. N LOKANADHA REDDY | |
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| | | | | Rate | Rate in Words |
| 1 | Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding whereverнecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all lifts complete asper specifications Dismantling brick/Tile work B. In cement mortar. complete as per specifications and site engineer in incharge | Cum | 2.06 | 397.65 | Three Hundred NinetySeven Paise SixtyFive Only |
| 2 | Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms) complete as per specifications and site engineer in incharge | Sqm | 6.36 | 397.65 | Three Hundred NinetySeven Paise SixtyFive Only |
| 3 | Dismantling plastering and removing the debris with a lead upto 200m. complete as per specifications and site engineer in incharge | Sqm | 10.30 | 41.92 | FourtyOne Paise NinetyTwo Only |
| 4 | Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc.,complete as per specifications and site engineer in incharge | Cum | 3.22 | 70.38 | Seventy Paise ThirtyEight Only |
| 5 | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and site engineer in incharge | Cum | 62.15 | 508.68 | Five Hundred Eight Paise SixtyEight Only |
| 6 | Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications and site engineer in incharge | Cum | 1.56 | 2751.86 | Two Thousand Seven Hundred FiftyOne Paise EightySix Only |

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| 7 | Providing and laying in position plain cement concrete of mix 1:4:8( M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and site engineer in incharge | Cum | 6.99 | 6203.05 | Six Thousand Two Hundred Three Paise Five Only |
| 8 | Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and site engineer in incharge | Cum | 17.57 | 6741.03 | Six Thousand Seven Hundred FourtyOne Paise Three Only |
| 9 | Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications and site engineer in incharge | Cum | 12.02 | 5206.90 | Five Thousand Two Hundred Six Paise Ninety Only |
| 10 | Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications and site engineer in incharge | Cum | 16.69 | 227.72 | Two Hundred TwentySeven Paise SeventyTwo Only |
| 11 | Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per specifications and site engineer in incharge | Cum | 21.41 | 70.38 | Seventy Paise ThirtyEight Only |
| 12 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications and site engineer in incharge | Sqm | 77.18 | 292.29 | Two Hundred NinetyTwo Paise TwentyNine Only |
| 13 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications and site engineer in incharge | Sqm | 27.24 | 405.59 | Four Hundred Five Paise FiftyNine Only |
| 14 | Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications and site engineer in incharge | Sqm | 46.67 | 516.61 | Five Hundred Sixteen Paise SixtyOne Only |

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| 15 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.complete as per specifications and site engineer in incharge | Sqm | 64.51 | 453.17 | Four Hundred FiftyThree Paise Seventeen Only |
| 16 | Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications and site engineer in incharge | Sqm | 6.48 | 855.35 | Eight Hundred FiftyFive Paise ThirtyFive Only |
| 17 | Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications and site engineer in incharge | Sqm | 50.51 | 330.81 | Three Hundred Thirty Paise EightyOne Only |
| 18 | Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. ,including edges including cost of all materials, labour complete as per specifications and site engineer in incharge | Sqm | 2.34 | 365.93 | Three Hundred SixtyFive Paise NinetyThree Only |
| 19 | Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcementcomplete as per specifications and site engineer in incharge | Cum | 7.82 | 7383.34 | Seven Thousand Three Hundred EightyThree Paise ThirtyFour Only |
| 20 | Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thickness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing,complete as per specifications and site engineer in incharge | Cum | 3.54 | 7647.31 | Seven Thousand Six Hundred FourtySeven Paise ThirtyOne Only |

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| | Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25.complete as per specifications and site engineer in incharge | Cum | 12.45 | 7026.47 | Seven Thousand TwentySix Paise FourtySeven Only |
| 22 | Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications and site engineer in incharge | Sqm | 3.60 | 561.93 | Five Hundred SixtyOne Paise NinetyThree Only |
| 23 | Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and site engineer in incharge | tonne | 1.82 | 99036.47 | NinetyNine Thousand ThirtySix Paise FourtySeven Only |
| 24 | Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications and site engineer in incharge | Sqm | 91.94 | 1033.22 | One Thousand ThirtyThree Paise TwentyTwo Only |
| 25 | Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc.,complete as per specifications and site engineer in incharge | Sqm | 44.53 | 918.80 | Nine Hundred Eighteen Paise Eighty Only |
| 26 | Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and site engineer in incharge | Sqm | 112.65 | 295.69 | Two Hundred NinetyFive Paise SixtyNine Only |

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| | Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and site engineer in incharge | Sqm | 84.18 | 231.12 | Two Hundred ThirtyOne Paise Twelve Only |
| 28 | Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications and site engineer in incharge | Sqm | 109.97 | 232.25 | Two Hundred ThirtyTwo Paise TwentyFive Only |
| 29 | Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and site engineer in incharge | Sqm | 44.30 | 254.91 | Two Hundred FiftyFour Paise NinetyOne Only |
| 30 | Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. complete as per specifications and site engineer in incharge | Sqm | 128.48 | 88.37 | EightyEight Paise ThirtySeven Only |
| 31 | Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer. complete as per specifications and site engineer in incharge | Sqm | 84.18 | 101.96 | One Hundred One Paise NinetySix Only |
| 32 | Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after throughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no117 item no 15.49.1 . KSRB 15-14.1 : Extra over Item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof complete as per specifications and site engineer in incharge | Sqm | 44.30 | 133.68 | One Hundred ThirtyThree Paise SixtyEight Only |

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| | Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. complete as per specifications and site engineer in incharge | Sqm | 112.65 | 115.56 | One Hundred Fifteen Paise FiftySix Only |
| 34 | KSRB 14.9-1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 ( 1 cement hardner mix : 2 granite metal 10mm nominal size ) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 ( 4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curingcomplete as per specifications and site engineer in incharge | Sqm | 42.00 | 714.87 | Seven Hundred Fourteen Paise EightySeven Only |
| 35 | Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 900x900x 12mm thick fixed on bed of 12mm thick cement mortar for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc including Cost of all materials mortar labour etc complete as per specifications and site engineer in incharge | Sqm | 18.09 | 1288.13 | One Thousand Two Hundred EightyEight Paise Thirteen Only |
| 36 | Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface ( excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications and site engineer in incharge | Sqm | 66.29 | 1848.93 | One Thousand Eight Hundred FourtyEight Paise NinetyThree Only |
| 37 | Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm.complete as per specifications and site engineer in incharge | Sqm | 30.32 | 2242.05 | Two Thousand Two Hundred FourtyTwo Paise Five Only |
| 38 | Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specifications and site engineer in incharge | m | 24.65 | 203.93 | Two Hundred Three Paise NinetyThree Only |

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| | Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per specifications and site engineer in incharge | Sqm | 24.60 | 595.92 | Five Hundred NinetyFive Paise NinetyTwo Only |
| 40 | Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specifications and site engineer in incharge | Nos | 3.00 | 1547.57 | One Thousand Five Hundred FourtySeven Paise FiftySeven Only |
| 41 | KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53.Item No 9.11 | Cum | 0.37 | 99248.32 | NinetyNine Thousand Two Hundred FourtyEight Paise ThirtyTwo Only |
| 42 | Providing and fixing 65mmx90mm GRP Doorframe fabricated using E-Glass Chopped Strand Mat (CSM). U.V-stabilized Isopthalic Gelcoat and Isopthalic resin. The thickness of the GRP skin shall not be less than 2.0 mm. The doorframe consists of four segmens, which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screws. The GRP frame shall be provided with wooden reinforcement of 6 locations fro high screw holding capacity for fixing metallic hold fast and shall be consolidated by filling with medium density foam/Plaster with fibre reinforcement. Six Numbers of 260mmx25mmx5mm size S shaped M.S. flat hold fast shall be provided with the frame. Page No. 63, Item No. 9.95 | m | 25.20 | 509.81 | Five Hundred Nine Paise EightyOne Only |

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| | Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications and site engineer in incharge | Sqm | 7.56 | 5349.65 | Five Thousand Three Hundred FourtyNine Paise SixtyFive Only |
| 44 | Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour | Sqm | 9.45 | 4305.10 | Four Thousand Three Hundred Five Paise Ten Only |
| 45 | Providing and applying painting two coats (excluding priming coat ) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost ofmaterials, labour, complete as per specifications and site engineer in incharge | Sqm | 6.03 | 109.89 | One Hundred Nine Paise EightyNine Only |
| 46 | Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm.Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size -2419mm x 21119 mm complete as per specifications and site engineer in incharge | Sqm | 4.50 | 5913.84 | Five Thousand Nine Hundred Thirteen Paise EightyFour Only |

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| | Providing & of Fixed Louvered Ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections with Minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free with gaskets-grey colour having isolated drainage and reinforced with Galvanized Iron profiles through out the Ventilator Frame. The frame having a overall size of 39mm x 39mm with GI reinforcement of 1 mm thickness. Louver clip in Aluminium(powder coated in white) will be used on the frame along with plastic parts for fixing the4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size-1000mm X 1000mm.complete as per specifications and site engineer in incharge | Sqm | 3.60 | 4114.77 | Four Thousand One Hundred Fourteen Paise SeventySeven Only |
| 48 | Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and site engineer in incharge | Kg | 94.50 | 107.63 | One Hundred Seven Paise SixtyThree Only |
| 49 | Providing and applying enamel metal paint two coats ( excluding priming coat ) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and site engineer in incharge | sqm | 12.60 | 107.63 | One Hundred Seven Paise SixtyThree Only |
| 50 | Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) complete as per specifications and site engineer in incharge | Cum | 14.57 | 368.20 | Three Hundred SixtyEight Paise Twenty Only |
| 51 | Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. complete as per specifications and site engineer in incharge | Sqm | 32.00 | 3993.54 | Three Thousand Nine Hundred NinetyThree Paise FiftyFour Only |

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| | Providing and fixing of Aluminium composite panel of approved make and colour for wall cladding for straight Brick/Rcc/stone walls & coloumns/beams with necessary aluminium frame works at required level made out of 50x25x3mm C section or equalent. The panel should consist of 2.5 mm thermoplastic core of antitoxic LDPE sandwiched between 0.25 skins thick aluminium sheet making a total panel thickness of 3mm. The surfaces will be finished with PVDF based coating on topsides and service coating on reverse sides would be in polyester paint. The system shall be fixed using GI brackets, aluminium L cleats and stainless steel bolts and nuts complete with spring washer and cap nuts and all other necessary accessories, sealing shall be done using weather sealant of Dow Corning 789 with necessary rods etc., complete as per specifications and site engineer in incharge | Sqm | 137.22 | 4463.70 | Four Thousand Four Hundred SixtyThree Paise Seventy Only |
| 53 | Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including curing etc., complete. complete as per specifications and site engineer in incharge | Sqm | 6.40 | 4012.80 | Four Thousand Twelve Paise Eighty Only |
| 54 | Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and site engineer in incharge | Kg | 22.68 | 107.63 | One Hundred Seven Paise SixtyThree Only |
| 55 | Providing and applying enamel metal paint two coats ( excluding priming coat ) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and site engineer in incharge | Sqm | 1.08 | 107.63 | One Hundred Seven Paise SixtyThree Only |
| 56 | Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. complete as per specifications and site engineer in incharge | Cum | 30.80 | 70.38 | Seventy Paise ThirtyEight Only |
| 57 | Health Faucets | Nos | 19.00 | 3147.00 | Three Thousand One Hundred FourtySeven Only |
| 58 | Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 300 mm length of PVC connection including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and site | Set | 22.00 | 265.10 | Two Hundred SixtyFive Paise Ten Only |

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| | Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement complete as per specifications and site engineer in incharge | Cum | 7.20 | 6549.09 | Six Thousand Five Hundred FourtyNine Paise Nine Only |
| 60 | Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and site engineer in incharge | Tonne | 0.72 | 99036.47 | NinetyNine Thousand ThirtySix Paise FourtySeven Only |
| 61 | Providing 20mm square M.S footrest and fixing in manhole Nos 232.00 with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications and site engineer in incharge | Nos | 4.00 | 312.69 | Three Hundred Twelve Paise SixtyNine Only |
| 62 | Waterproofing of RCC Terrace / podium slab / toilet / utilities / water retaining structure by preparing the surface by chipping and cleaning and Grouting of Honey comb, voids,cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0.1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per specifications and site engineer in incharge | Sqm | 48.00 | 595.92 | Five Hundred NinetyFive Paise NinetyTwo Only |
| 63 | Submersible Single phase 4 inch/100mm for sump complete as per specifications and site engineer in incharge | Nos | 1.00 | 15655.28 | Fifteen Thousand Six Hundred FiftyFive Paise TwentyEight Only |

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| | Providing and fixing white vitreous china clay, water closet europeon type (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications and site engineer in incharge. | Each | 5.00 | 5614.75 | Five Thousand Six Hundred Fourteen Paise SeventyFive Only |
| 65 | Providing and fixing white vitreous china clay, water closet Indian type ( Squatting pan ) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern ( all are approved make ) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specificationsand site engineer in incharge. | Pan | 3.00 | 3972.02 | Three Thousand Nine Hundred SeventyTwo Paise Two Only |
| 66 | Providing and fixing white vitreous china clay,flat back wash basin size 630x450mm with a Single 15mm C.P brass pillar taps with C.I / M.S brackets ,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications and site engineer in incharge. | Unit | 4.00 | 3567.57 | Three Thousand Five Hundred SixtySeven Paise FiftySeven Only |
| 67 | Providing and fixing white vitreous china clay,flat back or half stall urinal basin of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets ,standard flush pipe and C.P brass spreaders with brass unions and G.I clamps, C.I trap with outlet grating and other couplings in C.P brass, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications and site engineer in incharge. | Unit | 18.00 | 9146.06 | Nine Thousand One Hundred FourtySix Paise Six Only |
| 68 | Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications and site engineer in incharge. | Unit | 4.00 | 1287.00 | One Thousand Two Hundred EightySeven Only |
| 69 | Providing and fixing C.P brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P brass screws including cost of materials, labour complete as per specifications and site engineer in incharge. | Unit | 4.00 | 837.23 | Eight Hundred ThirtySeven Paise TwentyThree Only |
| 70 | Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. | Each | 18.00 | 169.94 | One Hundred SixtyNine Paise NinetyFour Only |

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| | Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 3000 Litre capacity) as per IS 12701 1996 and site engineer in incharge. | Each | 2.00 | 23206.73 | TwentyThree Thousand Two Hundred Six Paise SeventyThree Only |
| 72 | Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and site engineer in incharge. | Each | 18.00 | 196.00 | One Hundred NinetySix Only |
| 73 | Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and site engineer in incharge. | Each | 35.00 | 159.74 | One Hundred FiftyNine Paise SeventyFour Only |
| 74 | Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and site engineer in incharge. | Each | 2.00 | 380.66 | Three Hundred Eighty Paise SixtySix Only |
| 75 | Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete and site engineer in incharge.20mm nominal OD pipes | m | 15.00 | 266.24 | Two Hundred SixtySix Paise TwentyFour Only |
| 76 | Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete and site engineer in incharge.25mm nominal OD pipes | m | 20.00 | 331.95 | Three Hundred ThirtyOne Paise NinetyFive Only |
| 77 | Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Short point upto 3m | Point | 10.00 | 209.80 | Two Hundred Nine Paise Eighty Only |

M.L ROADS

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| sing copper wire without switch viring adopting loop system in existing /casing capping using 2x1.5Sqmm al) & 1x1.0 sqmm (Earth wire) FRLS C insulated copper wire (confirming to est amendments) with a 6Amps flush l switch shall be fixed on the existing gang box, the other end of the wires nated with sufficient loose length in a nd block. complete for each outlet. above 3m - 6m | Point | 12.00 | 288.48 | Two Hundred EightyEight Paise FourtyEight Only |
| nduit System - Supplying heavy gauge pipe .....mm dia .....mm thick IS 2509 with suitable size bends, nction boxes, adhesive paste etc., and re concreting the slab. The conduit ed to the reinforcement rods by using and unused ways of unction boxes and should be covered using PVC end un with 18SWG GI fish wire wherever 5mm dia, 2mm thick | Rm | 25.00 | 55.60 | FiftyFive Paise Sixty Only |
| ng : Supplying heavy gauge conduit PVC s thick heavy with suitable size bend , on boxes, adhesive pastes etc, by groove wall and fixing by bracing U or J hooks plastering up to the surface and run with fish wire run throughout the conduit where sary. 19/20mm dia, 2mm thick | Rm | 30.00 | 53.50 | FiftyThree Paise Fifty Only |
| ing : Supplying heavy gauge conduit PVC s thick heavy with suitable size bend , ion boxes, adhesive pastes etc, by groove wall and fixing by bracing U or J hooks t plastering up to the surface and run with fish wire run throughout the conduit where ssary. 25mm dia, 2mm thick | Rm | 20.00 | 56.65 | FiftySix Paise SixtyFive Only |
| and flush mounting powder coated / metal box suitable for mounting modular tes. The box should be firmly flush mounted groove cutting tone/C.C wall 1 - 3 Way | Each | 5.00 | 99.66 | NinetyNine Paise SixtySix Only |
| and flush mounting powder coated / d metal box suitable for mounting modular ates. The box should be firmly flush mounted groove cutting Stone/C.C wall 4 - 5 Way | Each | 5.00 | 110.15 | One Hundred Ten Paise Fifteen Only |
| g 6A flush type socket and 6 amp flush type ch either surface/flush mountinh in existing x or in 4mm thik plastic sheet and fixing over mounted wooden box and wiring using ary capacity wire as required as per IS 1293 3654 . 6AMP 3/5 and Switch | No | 3.00 | 138.47 | One Hundred ThirtyEight Paise FourtySeven Only |
| ng and mounting 2 Nos, of 2 Way 6amps flush itches either surface/flush mounted on existing ox or in 4mm thick plastic sheet and mounted usg mounted wooden box and wiring as per IS | Each | 4.00 | 157.35 | One Hundred FiftySeven Paise ThirtyFive Only |

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| | Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 16Amps Combined switch and socket with indication | No | 5.00 | 203.51 | Two Hundred Three Paise FiftyOne Only |
| 87 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 1.5sqmm | Rm | 70.00 | 21.03 | TwentyOne Paise Three Only |
| 88 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments 2.5sqmm | Rm | 20.00 | 33.57 | ThirtyThree Paise FiftySeven Only |
| 89 | Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting | Nos | 30.00 | 314.70 | Three Hundred Fourteen Paise Seventy Only |
| 90 | Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply. complete as per specifications and site engineer in incharge | Each | 21.00 | 1258.80 | One Thousand Two Hundred FiftyEight Paise Eighty Only |
| 91 | Supplying, fixing and wiring electronic Trivector Meter(ETV) 5 to 20Amps single phase Class-1 Accuracy with Temper Proof Energy Meter. complete as per specifications and site engineer in incharge | Each | 2.00 | 1206.35 | One Thousand Two Hundred Six Paise ThirtyFive Only |

Signature of the Contractor

Executive Engineer,
Yelahanka Division,
BBMP, Bengaluru-64.